Solve the system of equations by graphing.

1. y = 4x + 3

y = -x - 2



1. y = $\frac{-1}{2}x-1$

y = $\frac{1}{4}x-4$



Solve the system of equations by substitution or elimination.

1. y = 4x – 9

y = x – 3

1. 4x + 2y = 10

x – y = 13

Solve the following problem.

1. The school that Stefan goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 3 senior citizens tickets and 1 child ticket for a total of $38. The school took in $52 on the second day by selling 3 senior citizen tickets and 2 child tickets. Find the price of a senior citizen ticket and a child ticket.

**Review**

Simplify the following expressions. Rewrite all exponents positive.

1. $\left(\frac{x^{-2}y^{4}}{y^{-1}x^{3}}\right)^{-2}$
2. (n3)3 ⋅ 2n-1

Solve using any method.

1. 3x2 + 6x – 42 = 0